

(54) CONNECTOR WITH NOISE FILTER

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PURPOSE: To provide a connector of high performance and a small size at a low cost where conducting noise and radiating noise can be eliminated, deterioration of insulation due to a lapse of hours can be prevented, and a capacitor cannot be damaged due to heat expansion.

CONSTITUTION: Connector pins 13 are securely projected from a top plate 12 of a housing 11 into through holes 12a, and a shield case 14 having a window 15 surrounding the through holes is disposed in the housing. A printed circuit board 20 is provided with pin holes 20a, into which the pins can be fitted; grounding conductors 21, which are insulated from the pins, at the back surface except for the surroundings of the hole; and inside conductors 22 to be connected to the pins for each hole at the front surface of the surroundings of the hole. A separation conductor 23 to be connected to the grounding conductor is formed at the surface at a clearance 22a which is insulated from the inside conductor. The board is inserted into the window in such a manner as to be opposite to the top plate at the back surface thereof, and the separation conductor is connected to the window. One chip capacitor 30 is disposed for two inside conductors adjacent to each other at the surface of the board. Outside electrodes 31, 32 are connected to the inside conductor while grounding electrodes 33, 34 are connected to the separation conductor.

